

Appl. No. 10/605,653
Amdt. dated May 02, 2005
Reply to Office action of February 24, 2005

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

- 5 Claim 1 (Currently amended): A backlight module comprising:
a plurality of point light source generators;
a diffusing plate installed ~~atop-on~~ the plurality of point light source
generators for scattering the light generated by the plurality of
point light source generators;
10 a plurality of scattering apertures installed on the surface of the
diffusing plate opposite to the plurality of point light source
generators, wherein a scattering pattern is disposed over the
inner wall of at least one scattering aperture; and
a diffusing sheet installed above the diffusing plate for diffusing the
15 light emitted from the diffusing plate.

Claim 2 (Original): The backlight module of claim 1 wherein the point
light source generators are light emitting diodes (LEDs).

- 20 Claim 3 (Original): The backlight module of claim 1 wherein the diffusing
plate further comprises a plurality of scattering particles to uniform the
light generated by the point light source generators.

Claim 4 (Canceled)

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Claim 5 (Previously presented): The backlight module of claim 1 wherein
the number of the scattering apertures correspond to the number of the
point light source generators, and the position of each scattering aperture

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corresponds to the position of each point light source generator.

Claim 6 (Previously presented): The backlight module of claim 1 wherein
each of the plurality of scattering apertures is circular, rectangular, or
5 trapezoidal in shape.

Claim 7 (Canceled)

Claim 8 (Canceled)

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Claim 9 (Previously presented): The backlight module of claim 1 wherein
the plurality of scattering patterns comprises a plurality of V-trenches or a
plurality of arc trenches.

15 Claim 10 (Canceled)

Claim 11 (Currently amended): The backlight module of claim 1 further
comprising at least one prism sheet installed above the diffusing sheet for
~~uniform~~ uniforming the light diffused by the diffusing sheet.

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Claim 12 (Original): The backlight module of claim 1 further comprising
at least one brightness enhancement film installed above the diffusing
plate for enhancing the brightness of the backlight module.

25 Claim 13 (Original): The backlight module of claim 1 further comprising a
reflecting plate installed under the plurality of point light source
generators for reflecting the light generated by the plurality of point light
source generators to the diffusing plate.

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Claim 14 (Previously presented): The backlight module of claim 1 wherein each of the inner walls of the scattering apertures has the scattering pattern.

- 5 Claim 15 (Currently amended): The backlight module of claim 14 wherein the scattering patterns disposed over the inner walls are the same patterns.

- Claim 16 (Currently amended): The backlight module of claim 14 wherein the scattering patterns disposed over the inner walls are the different
10 patterns.